

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
 Data File : VL043070.D
 Acq On : 08 Oct 2025 22:10
 Operator : SY/MD
 Sample : Q3320-13
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 01:24:43 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.784	49	172065	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	450631	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.878	117	352768	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	249094	9.802	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	13542	0.467	ppbv	99
3) Chlorodifluoromethane	1.476	51	9930m	0.354	ppbv	
4) Chloromethane	1.531	50	4682	0.442	ppbv	92
9) Propene	1.489	41	4700	0.415	ppbv	84
11) Trichlorofluoromethane	1.878	101	6729	0.226	ppbv	87
13) Ethanol	1.722	45	9891	22.860	ppbv #	31
15) Acetone	1.835	43	82318	3.417	ppbv	100
20) Methylene Chloride	2.062	84	7340	0.698	ppbv	97
26) Hexane	2.826	57	7831	0.337	ppbv #	33
34) 2-Butanone	2.557	43	4241	0.139	ppbv	97
35) Carbon Tetrachloride	3.761	117	2800m	0.076	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

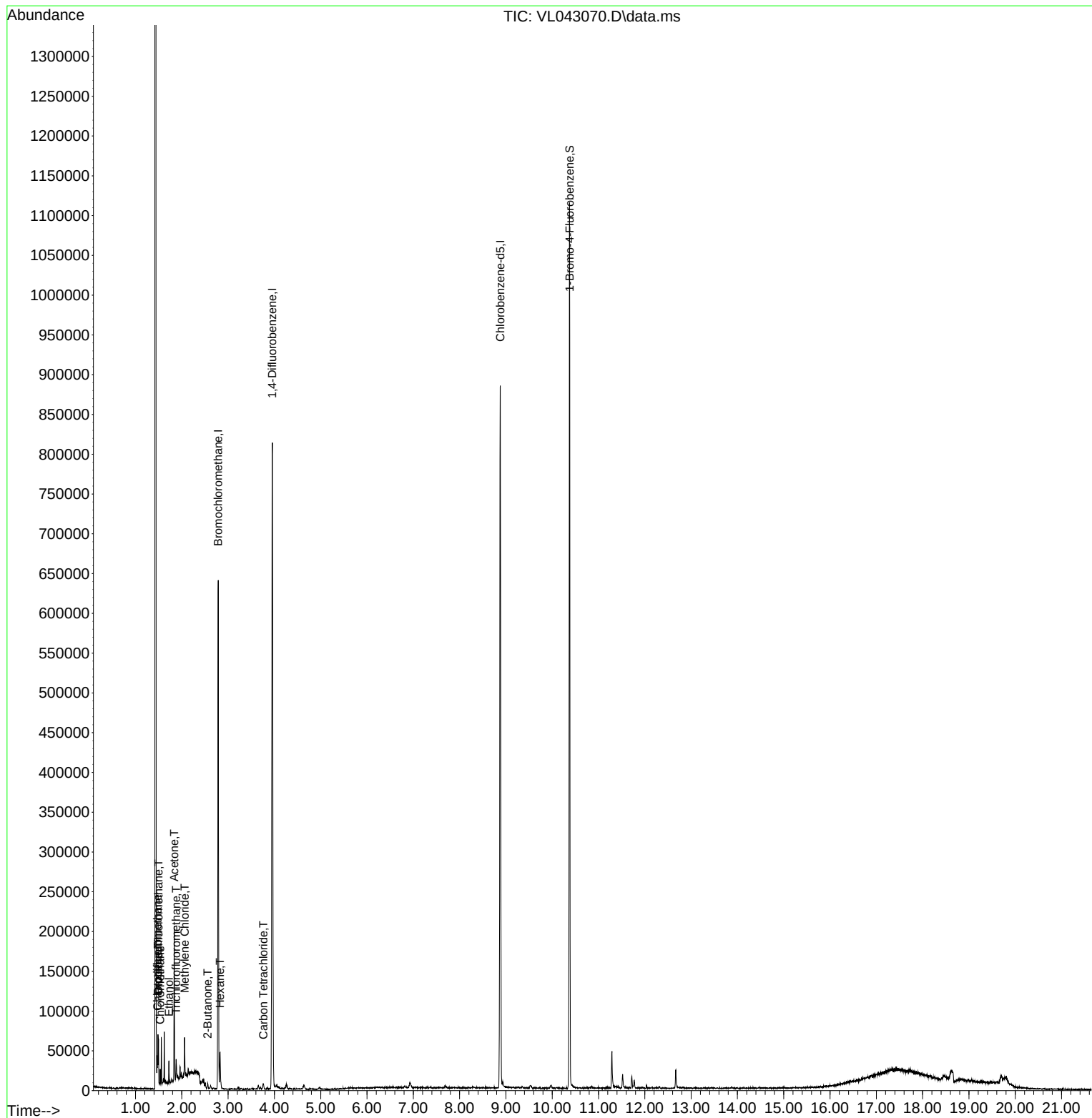
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
Data File : VL043070.D
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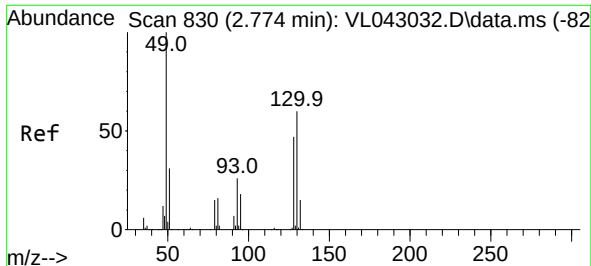
Instrument :
MSVOA_L
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OA1

Quant Time: Oct 09 01:24:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
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QLast Update : Fri Oct 03 08:23:34 2025
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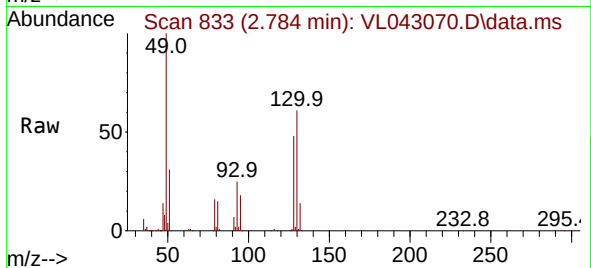
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL043070.D
Acq: 08 Oct 2025 22:10

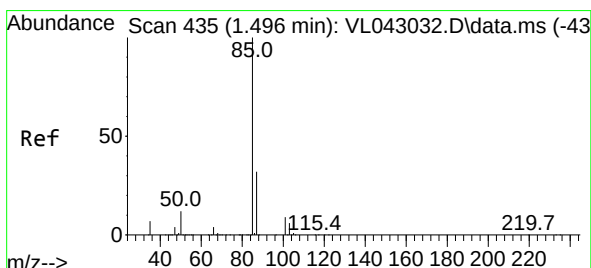
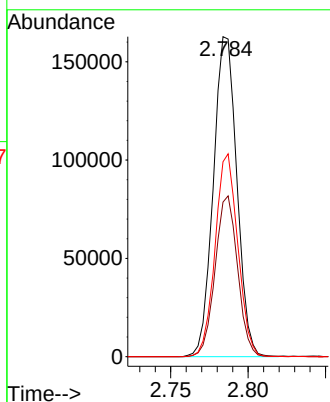
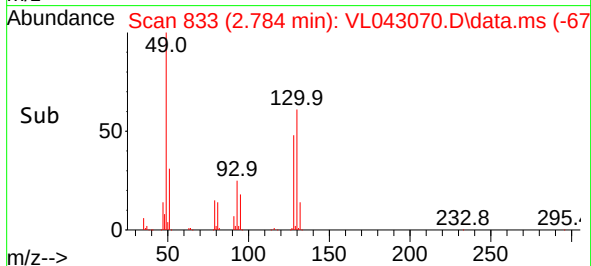
Instrument :
MSVOA_L
ClientSampleId :
OA1



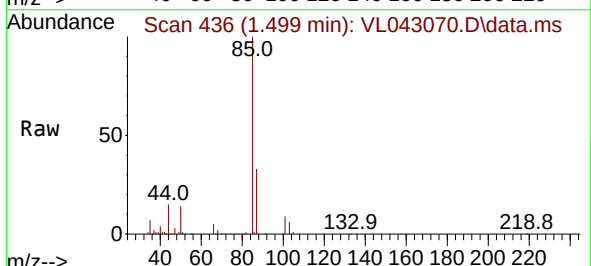
Tgt Ion: 49 Resp: 17206
Ion Ratio Lower Upper
49 100
128 48.0 24.1 72.2
130 61.1 31.4 94.3

Manual Integrations
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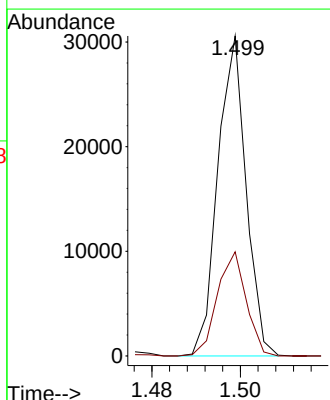
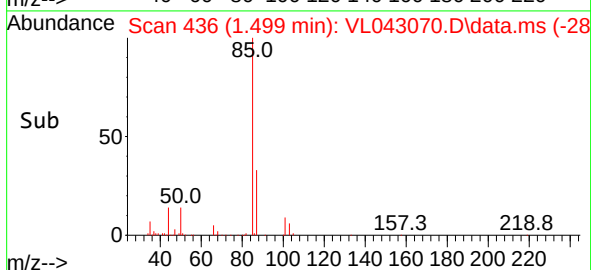
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

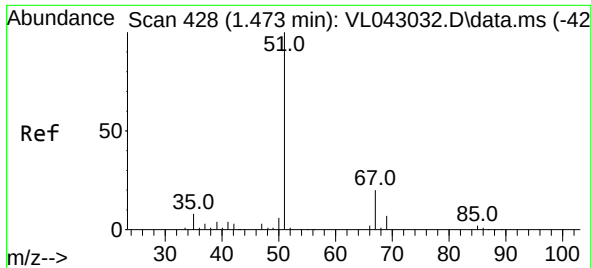


#2
Dichlorodifluoromethane
Concen: 0.467 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043070.D
Acq: 08 Oct 2025 22:10



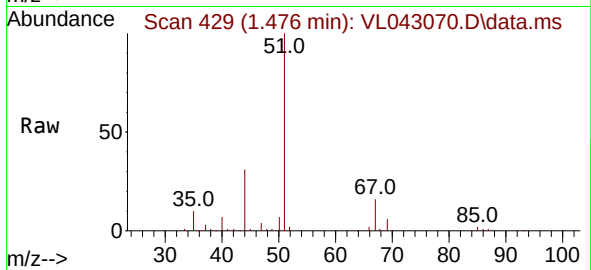
Tgt Ion: 85 Resp: 13542
Ion Ratio Lower Upper
85 100
87 32.6 25.8 38.6





#3
Chlorodifluoromethane
Concen: 0.354 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043070.D
Acq: 08 Oct 2025 22:10

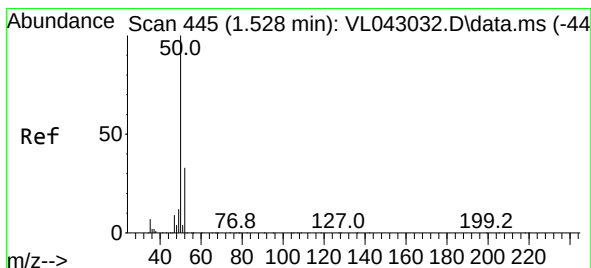
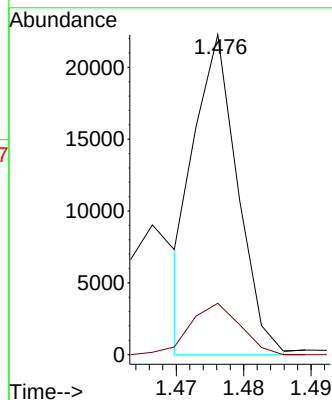
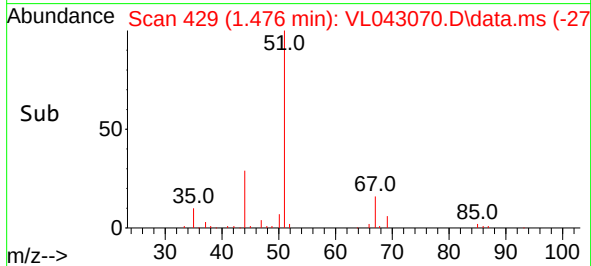
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 51 Resp: 9930
Ion Ratio Lower Upper
51 100
67 19.1 15.1 22.7

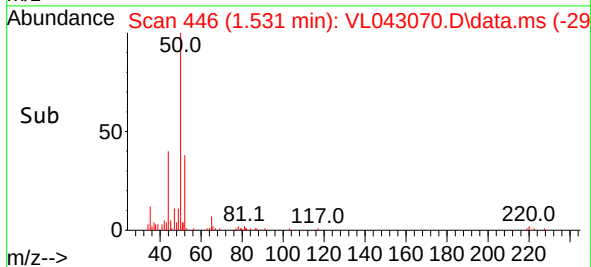
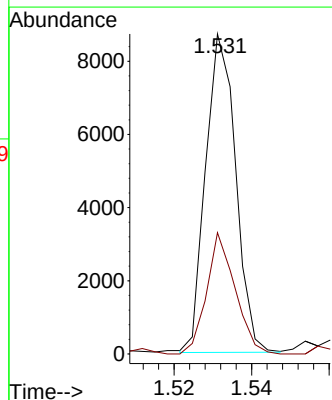
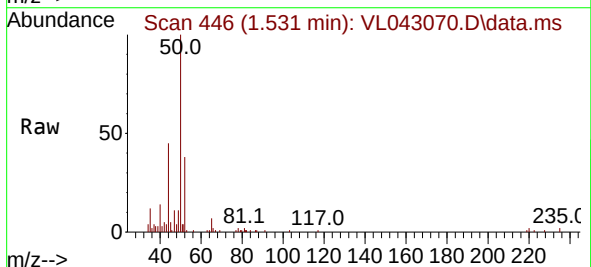
Manual Integrations
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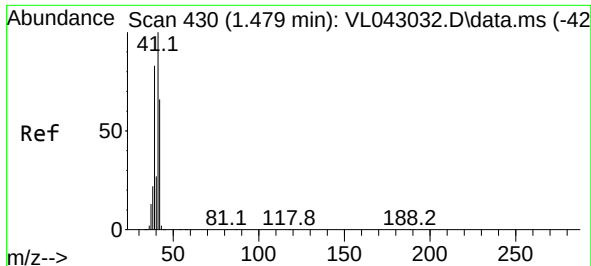
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#4
Chloromethane
Concen: 0.442 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL043070.D
Acq: 08 Oct 2025 22:10

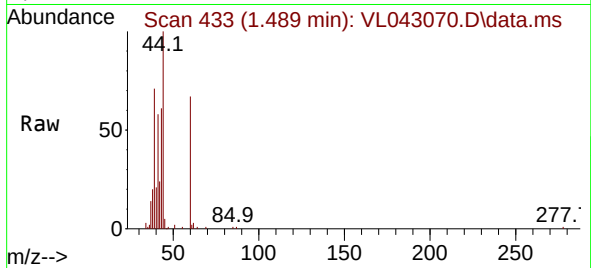
Tgt Ion: 50 Resp: 4682
Ion Ratio Lower Upper
50 100
52 37.0 26.2 39.2





#9
 Propene
 Concen: 0.415 ppbv
 RT: 1.489 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL043070.D
 Acq: 08 Oct 2025 22:10

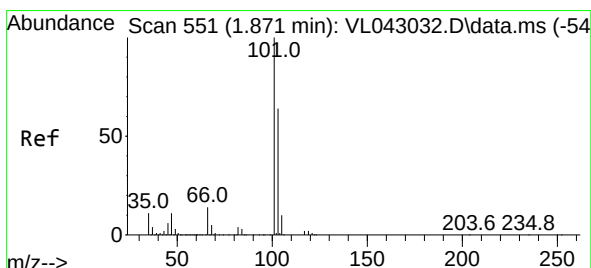
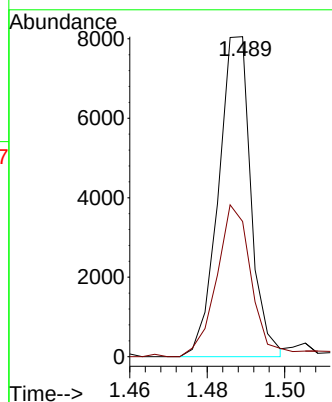
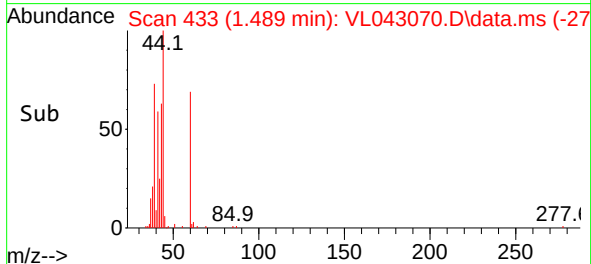
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1



Tgt Ion: 41 Resp: 4700
 Ion Ratio Lower Upper
 41 100
 42 53.5 53.3 79.9

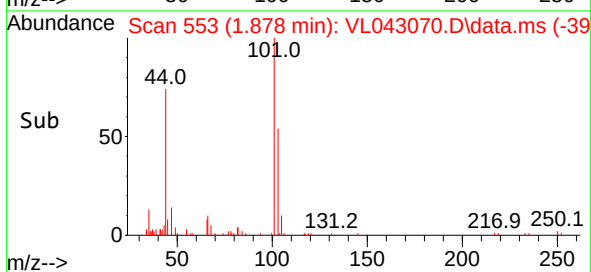
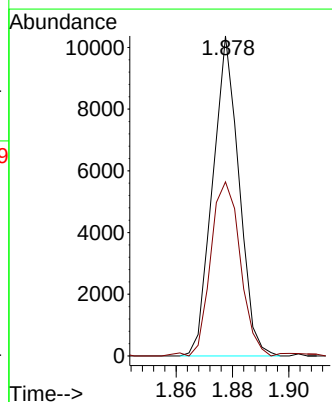
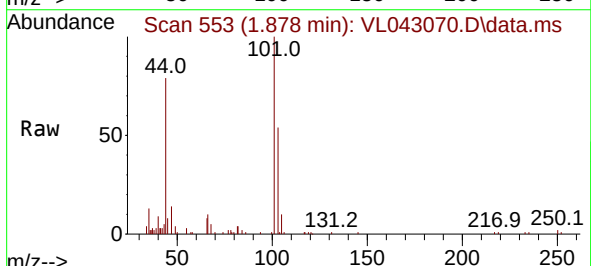
Manual Integrations
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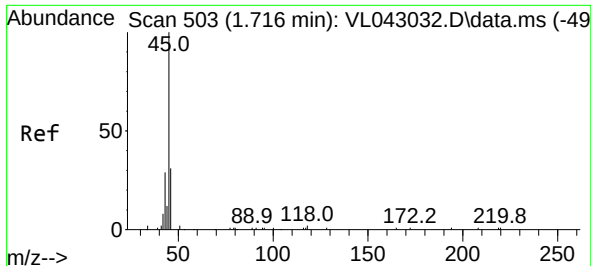
Reviewed By :Semsettin Yesilyurt 10/09/2025
 Supervised By :Mahesh Dadoda 10/10/2025



#11
 Trichlorofluoromethane
 Concen: 0.226 ppbv
 RT: 1.878 min Scan# 553
 Delta R.T. 0.007 min
 Lab File: VL043070.D
 Acq: 08 Oct 2025 22:10

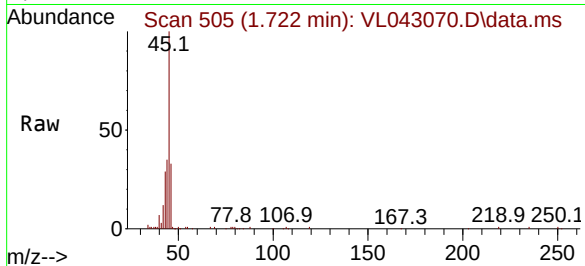
Tgt Ion:101 Resp: 6729
 Ion Ratio Lower Upper
 101 100
 103 53.6 51.1 76.7





#13
Ethanol
Concen: 22.860 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL043070.D
Acq: 08 Oct 2025 22:10

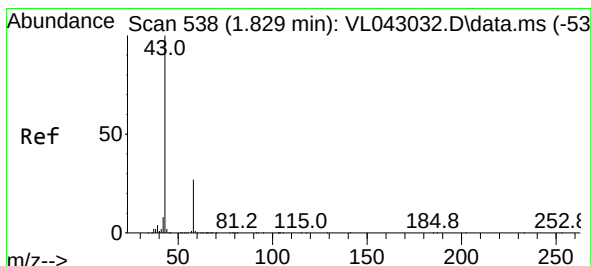
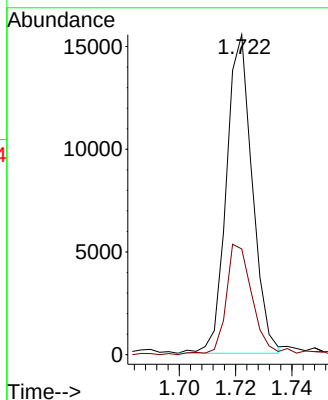
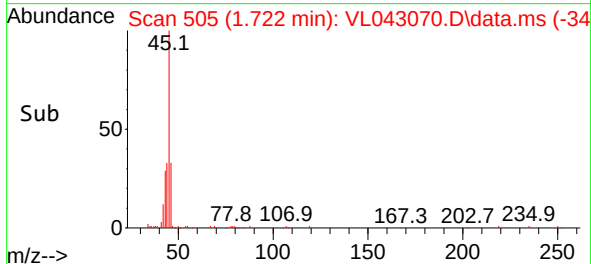
Instrument :
MSVOA_L
ClientSampleId :
OA1



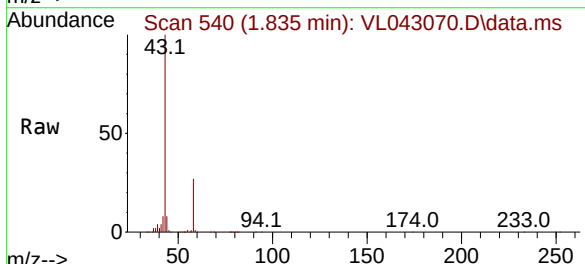
Tgt Ion: 45 Resp: 989
Ion Ratio Lower Upper
45 100
46 0.0 17.8 71.4

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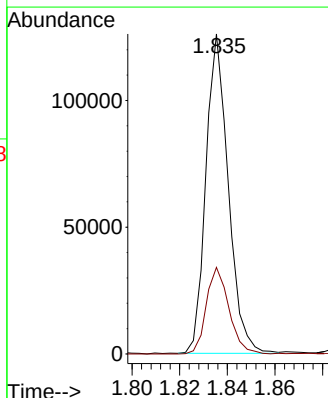
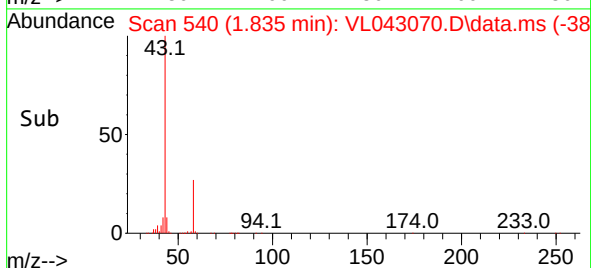
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

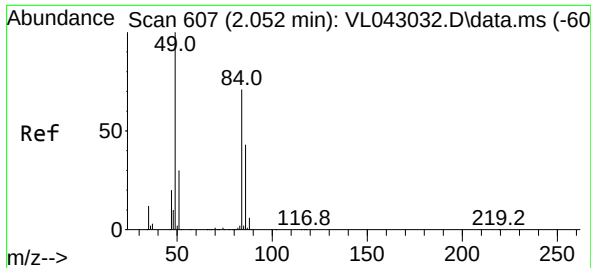


#15
Acetone
Concen: 3.417 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.006 min
Lab File: VL043070.D
Acq: 08 Oct 2025 22:10



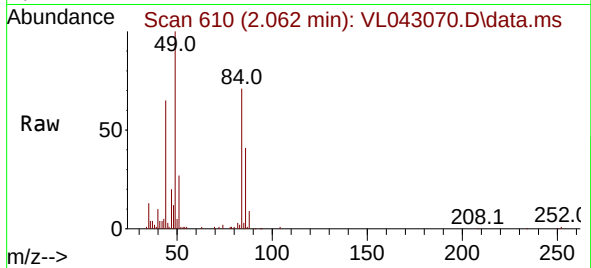
Tgt Ion: 43 Resp: 82318
Ion Ratio Lower Upper
43 100
58 27.7 22.2 33.4





#20
Methylene Chloride
Concen: 0.698 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.010 min
Lab File: VL043070.D
Acq: 08 Oct 2025 22:10

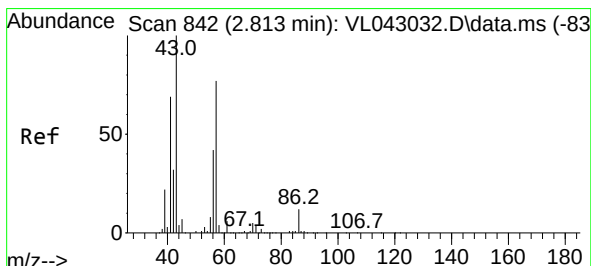
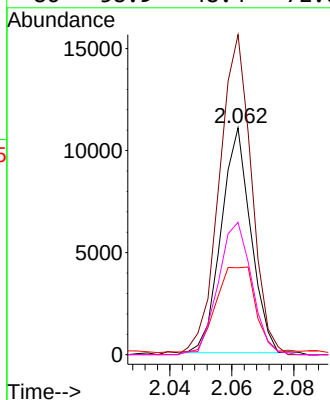
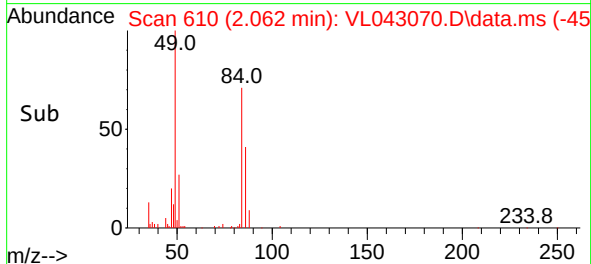
Instrument :
MSVOA_L
ClientSampleId :
OA1



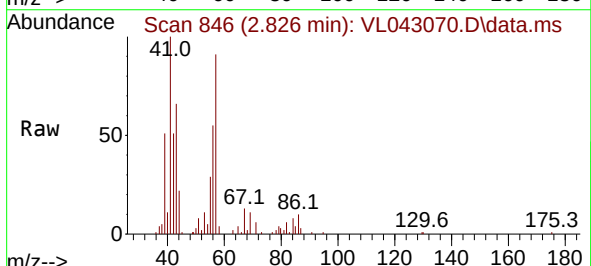
Tgt Ion: 84 Resp: 7340
Ion Ratio Lower Upper
84 100
49 142.3 112.5 168.7
51 37.4 34.2 51.2
86 58.9 48.4 72.6

Manual Integrations
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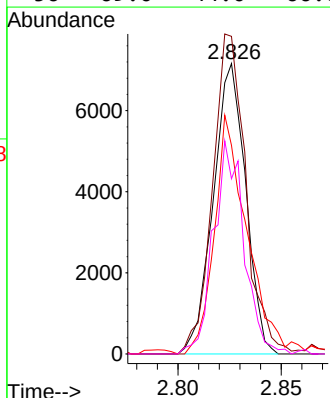
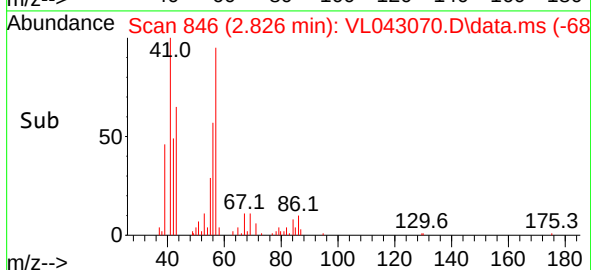
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

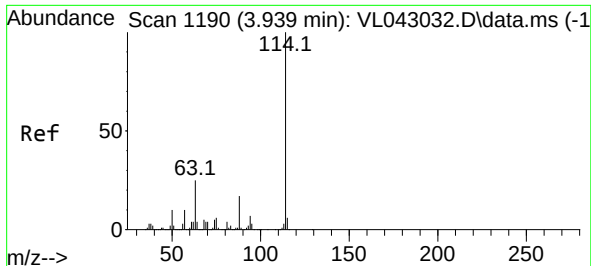


#26
Hexane
Concen: 0.337 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.013 min
Lab File: VL043070.D
Acq: 08 Oct 2025 22:10



Tgt Ion: 57 Resp: 7831
Ion Ratio Lower Upper
57 100
41 114.0 76.1 114.1
43 85.6 201.4 302.0#
56 69.0 44.0 66.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.016 min

Lab File: VL043070.D

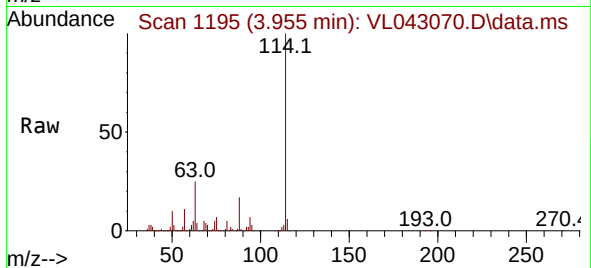
Acq: 08 Oct 2025 22:10

Instrument :

MSVOA_L

ClientSampleId :

OA1



Tgt Ion:114 Resp: 45063

Ion Ratio Lower Upper

114 100

63 25.4 19.4 29.2

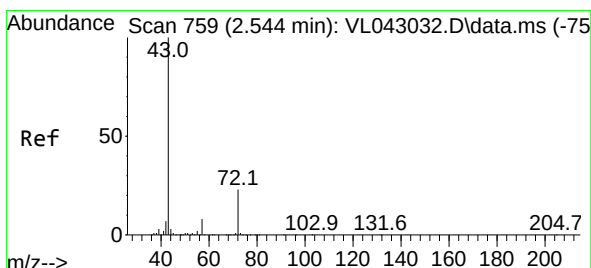
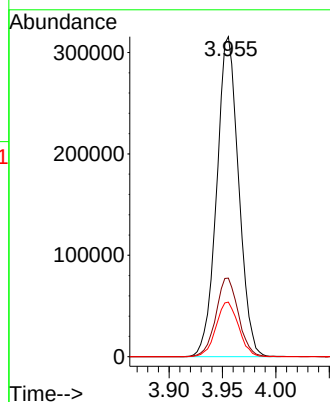
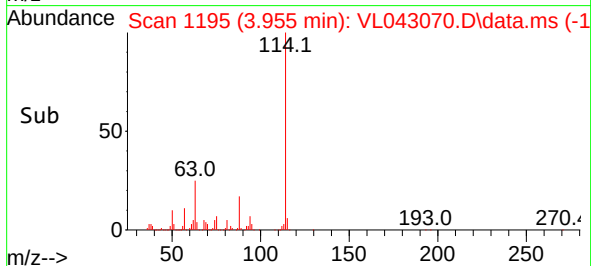
88 17.5 13.9 20.9

Manual Integrations

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#34

2-Butanone

Concen: 0.139 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.013 min

Lab File: VL043070.D

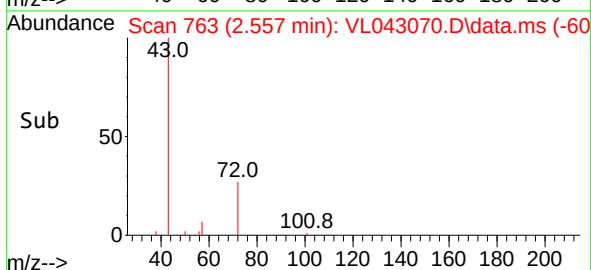
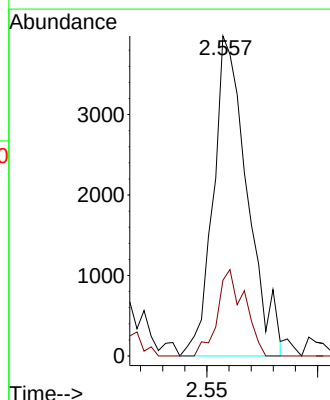
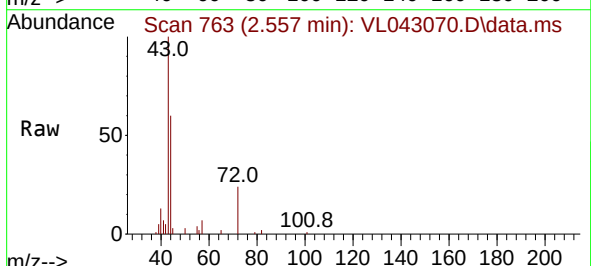
Acq: 08 Oct 2025 22:10

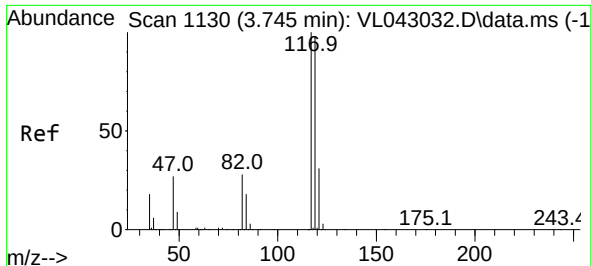
Tgt Ion: 43 Resp: 4241

Ion Ratio Lower Upper

43 100

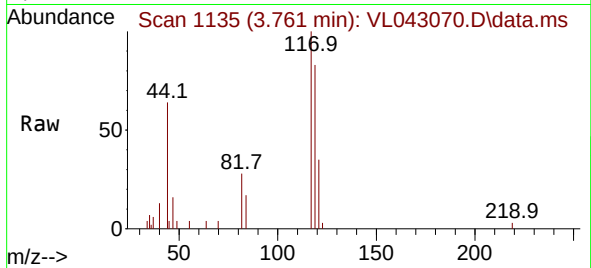
72 21.8 18.4 27.6





#35
Carbon Tetrachloride
Concen: 0.076 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.016 min
Lab File: VL043070.D
Acq: 08 Oct 2025 22:10

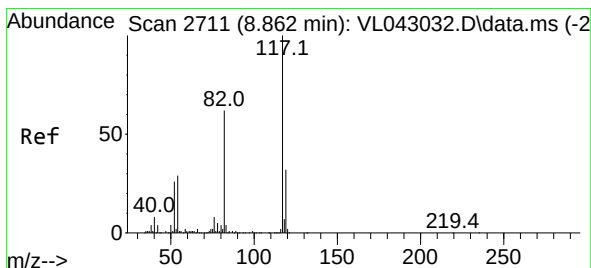
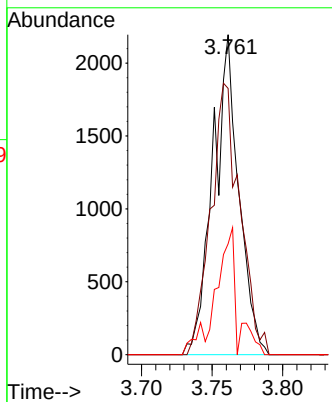
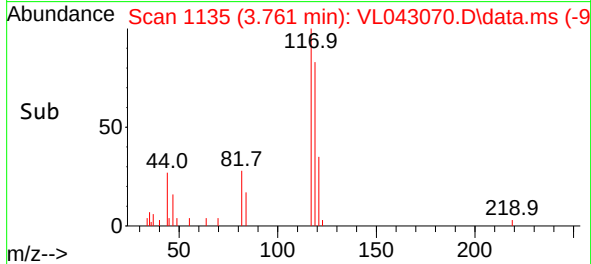
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion:117 Resp: 2800
Ion Ratio Lower Upper
117 100
119 83.2 78.2 117.4
121 34.6 24.8 37.2

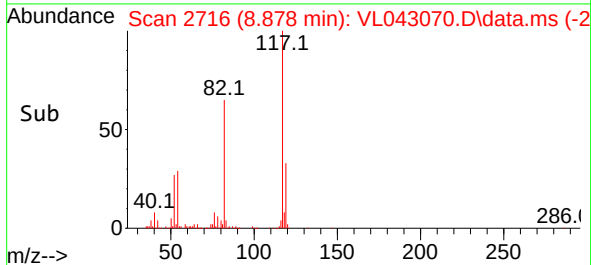
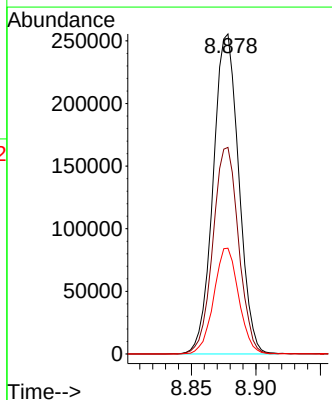
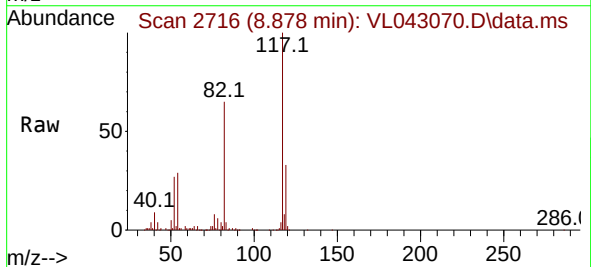
Manual Integrations
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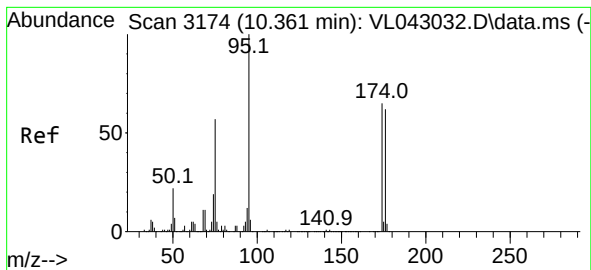
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.016 min
Lab File: VL043070.D
Acq: 08 Oct 2025 22:10

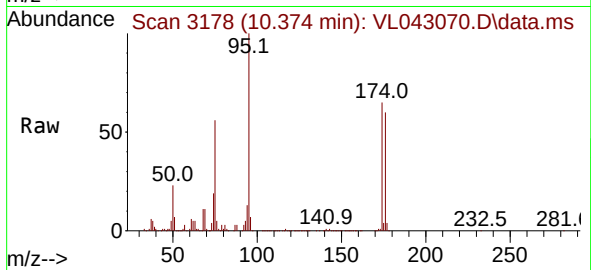
Tgt Ion:117 Resp: 352768
Ion Ratio Lower Upper
117 100
82 64.7 53.0 79.6
119 32.3 25.4 38.2





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.802 ppbv
 RT: 10.374 min Scan# 31
 Delta R.T. 0.013 min
 Lab File: VL043070.D
 Acq: 08 Oct 2025 22:10

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1



Tgt Ion: 95 Resp: 249094
 Ion Ratio Lower Upper
 95 100
 174 65.0 52.3 78.5
 175 4.5 3.8 5.8

Manual Integrations
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 Supervised By :Mahesh Dadoda 10/10/2025

